Building the Open Developer Platform with OpenShift & WhiteSource

Peter Monks - VP of Technology, Symphony Software Foundation
Diane Mueller - Director Community Development, Red Hat
Azi Cohen - Co-founder and GM, WhiteSource
Agenda

1. Why the Open Developer Platform (ODP)?
2. What is the ODP?
3. Representative vendor collaborations:
   a. Red Hat OpenShift
   b. WhiteSource
FinServ Developer Landscape

- **Locked down** development environments
- **Internet services typically blocked by default**
- **Internet access is surveilled**
  - IP & DLP analysis
  - Fraud, collusion, bribery detection
- **Compliance violations are a serious offense**
FinServ Developer Landscape

- Locked down development environments
- Internet services typically blocked by default
- Internet access is surveilled
  - IP & DLP analysis
  - Fraud, collusion, bribery detection
- Compliance violations are a serious offense
- As a result, firm developers:
  - Rarely have access to open source infrastructure
  - Are reserved when in the public arena
Financial Industry On-Ramp to Open Source

ODP is the trusted venue for FinServ collaboration on open source.

Established in conjunction with Foundation Members.

Trust via transparency - we are an independent, non-competitive, non-profit third party.
What is the Open Developer Platform?

A trusted environment for inter-firm collaboration on open source

Symphony (REST API)  Symphony (Extension API)  Symphony (Integrations Bridge)  Plexus

Add Your API  Add Your Data

Dev

Code Hosting
Project metadata and documentation, IP compliance, issue tracking

Build Automation
Continuous integration/delivery and artifact publishing

Code Validation
Security, quality and legal compliance

Biz

FREE for all open source contributors!

symphony.foundation/odp

@symphonyoss
What is the Open Developer Platform?

A trusted environment for inter-firm collaboration on open source

**Code Hosting**

- GitHub
  - Technologies > Projects > Repositories
  - Enforce IP compliance on every line of code, at any time

**Build Automation**

- OpenShift
  - Continuous build, testing and artifact publishing
  - Continuous delivery on a containerised runtime environment

**Code Validation**

- WhiteSource
  - Legal compliance
  - Security validation and reporting
  - Quality checks and reporting

FREE for all open source contributors!

symphony.foundation/odp

symphony.foundation
# We want you to innovate!

<table>
<thead>
<tr>
<th>FinServ Dev</th>
<th>FinTech Dev</th>
<th>Community Dev</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Consume</strong> Foundation-hosted open source with the peace of mind that it is legally &amp; technically clean. <strong>Easily contribute</strong> to these projects, thanks to a trusted host.</td>
<td><strong>Host your open source technology</strong> with the Foundation, and leverage the ODP to provide a high-fidelity, FinServ-friendly developer experience.</td>
<td>Utilise the <strong>ODP</strong> to access FinServ platforms, to apply <strong>open source best practices</strong>, and enforce <strong>quality, security</strong>, and <strong>legal</strong> compliance in your open source.</td>
</tr>
</tbody>
</table>

**Survey the project portfolio** symphonyoss.github.io  
**Publish via the ODP** symphony.foundation/odp  
**Leverage the ODP** symphony.foundation/odp/docs
OPENSHIFT CONTAINER PLATFORM
Collaboration, Culture, and Code

Diane Mueller
Director of Community Development
Red Hat
dmueller@redhat.com
November 2017
BRINGING OPEN SOURCE INNOVATION TO THE ENTERPRISE
THE PATH TO INNOVATION
IT TAKES MORE THAN JUST TECHNOLOGY TO MOVE THE BUSINESS FORWARD

CULTURE
- Collaborative
- Transparent
- Open

PROCESS
- Agile
- Continuous
- Iterative

TECHNOLOGY
- Open source
- Hybrid
- Connected
DEVELOPMENT + OPERATIONS

COLLABORATIVE CULTURE MEANS COMMUNICATION

DEV
- plan
- code
- build
- test

DEVOPS

OPS
- release
- deploy
- operate
- monitor
RED HAT CONTAINER STACK
100% OPEN SOURCE

**Red Hat Application Services (JBoss)**

**Red Hat OpenShift Container Platform (incl. CloudForms)**

**Red Hat Enterprise Linux & Atomic Host**

---

**LIFECYCLE AUTOMATION**

- Business Automation
- Integration
- Data
- Web & Mobile
- 3rd party frameworks

**CONTAINER MANAGEMENT**

- SELF-SERVICE
- SERVICE CATALOG
- MONITORING
- CAPACITY MGMT (CloudForms)

**CONTAINER INFRASTRUCTURE SERVICES**

- ORCHESTRATION (Kubernetes)
- CONTAINER ENGINE (Docker Engine)
- REGISTRY (Atomic Registry)

**Public Registry**

- PUBLIC REGISTRY (RH Registry)

**Ops Management**

- OPS MANAGEMENT (CloudForms, Satellite)

**Ops Automation**

- OPS AUTOMATION (Ansible)

**Storage**

- STORAGE (RH Storage)

**Dev Tools**

- DEV TOOLS (Developer Studio, Container Dev Kit)

---

**Physical**

**Virtual**

**Private Cloud**

**Public Cloud**
Upstream Proposals and Issues

https://github.com/kubernetes/community/blob/master/sig-list.md

45% of the Kube SIGS are co-lead by Red Hat

- API Machinery
- AUTH
- Autoscaling
- Big Data
- CLI
- Network
- Node
- OpenStack
- Scheduling
- Service Catalog
- Storage
- Container Identity
- Resource Management

Container Runtime

https://github.com/opencontainers/runc
https://github.com/containerd/containerd
https://github.com/moby/moby

Maintainer Status. Focus on issues in the following areas:

- version/master
- area/networking
- area/storage
- area/runtime
- kind/performance
- area/runtime
- area/security
- area/plugins
- area/daemon
Community Powered Innovation

https://github.com/openshift/origin
Community Powered Innovation

OPENSHIFT Commons
300+ Member Organizations
OPEN SOURCE
OPEN COMMUNITIES
OPEN COLLABORATION

Making connections that drive continuous innovation

Join us at commons.openshift.org
WhiteSorce

Where Open Source and Corporate Security Needs Meet

Azi Cohen
General Manager and Founder
WhiteSource
Who’s WhiteSource

- Independent vendor, provide OSS Management solution since 2011
- Holds the largest database of OSS components, vulnerabilities and their license
- Proud member of Open Developer Platform
- We join ODP because
  - We know that security is part of any decision made today by corporate IT
  - We believe that the adoption of OSS by the most sophisticated clients will push the OSS contributors community to higher level of quality and performance
  - We hope that with our help, more members will be ready to take a bigger bite from OSS
  - …. and we will be in the first row to learn more
What Highly Regulated Clients Always Need

● To be adopted by the financial institutes any solution must meet the Governance, Risk and Compliance requirements – OSS is not an exception

● Information needs:
  ▶ Quality
  ▶ Security
  ▶ Legal

● Strong policy engine:
  ▶ Reach
  ▶ Active
Multiple, Sources for OSS Vulnerabilities

CVE/NVD

Including NVD look alike (e.g. OSVDB/VulDB)

Security Advisories

Bug Trackers

10% Non-published !!!
Our Contribution

- We let the Foundation partners bring in their best projects
- We promise to be the glue that makes sure that
  - Best information needs is provided as new projects are added:
    - Quality
    - Security
    - Legal
  - Most comprehensive policies introduced by top companies are applied at the gate, and verified at any change
- You guys will bring your best projects, we will make sure those can be consumed safely by others